

Technical Specifications & Product Overview

► Low-Frequency Transformer Type

Model		Specifications				
		HPC-050HT-E	HPC-100HT-E	HPC-250HT-E	Solar Station 500kW	Solar Station 1MW
System Overview	Phase	3-Phase	3-Phase	3-Phase	3-Phase	3-Phase
	Operating Method	Grid-Tied Inverter	Grid-Tied Inverter	Grid-Tied Inverter	Grid-Tied Inverter	Grid-Tied Inverter
	Design Concept	Low-Frequency Transformer			Medium Voltage	
		[Δ -Y]	[Δ -Y]	[Δ -Y]		
Input Data	Max. Input Voltage	650Vdc	650Vdc	880Vdc	900Vdc	900Vdc
	Nominal Voltage	450Vdc	450Vdc	635Vdc	650Vdc	650Vdc
	MPPT Voltage Range	300~600Vdc	300~600Vdc	450~820Vdc	450~820Vdc	450~820Vdc
	Max. Input Current	175Adc	350Adc	580Adc	2 x 625Adc	2 x 1,140Adc
Output Data	Nominal AC Power	50kW	100kW	250kW	500kW	1,000kW
	Nominal AC Voltage	400V, +10%/-12%			20kV, +10%/-12%	
	Nominal AC Current	72A	144A	361A	14.4A	28.9A
	Nominal AC Frequency	50Hz/60Hz				
	THD of AC Current	< 5% Total (<3% Individual) at rated power				
System Specifications	Max. Efficiency	95.8%	96.7%	96.9%	97.0%	97.0%
	European Efficiency	95.0%	96.3%	96.4%	96.5%	96.5%
	Power Factor	>0.99	>0.99	>0.99	>0.85	>0.85
	Protection Degree	IP20	IP20	IP20	IP54	IP54
	Operating Temperature	-10°C~40°C	-10°C~40°C	-20°C~40°C	-20°C~45°C	-20°C~45°C
Dimensions	Width/Depth/Height[mm]	800/700/1,994	1,000/800/2,095	2,200/850/2,215	5,300/3,000/3,100	5,600/3,000/3,100
	Weight	800kg	1,250kg	2,350kg	approx. 28t	approx. 32t
Protective Functions		DC Over-/Under-Voltage, AC Line Over-/Under-Voltage, AC Line Frequency Failure, AC Line Failure, Anti-Islanding Protection, Overheating				

※ Specifications subject to change without prior notice.